

02/20/02

ROBERT E. BUSHNELL*†

JOSEPH G. SEEBER*
 JOHN C. BROSKY*+*
 DARREN R. CREW+*
 MATTHEW J. LESTINA‡*
 SAVADVINDER S. SAHOTA‡*
 RICHARD H. STERN*
 MICHAEL D. PARKER
 DANIEL A. GESELowitz, Ph.D.
 (REG. PATENT AGENTS)

† ADMITTED IN MARYLAND
 ° ADMITTED IN VIRGINIA
 + ADMITTED IN PENNSYLVANIA
 ‡ ADMITTED IN NEW YORK
 ° ADMITTED IN CONNECTICUT
 * NOT ADMITTED IN D.C.

Assistant Commissioner for Patents
 Washington, D.C. 20231

Sir:

Submitted herewith is the following patent application:

Inventor:	1) DONG-KYUN SEO	5) SUNG-HWAN MOON
	2) JONG-SEO CHOI	6) YOON-CHANG KIM
	3) KYOUNG-CHEON SON	7) SEUNG-KWON HAN
	4) KYU-NAM JOO	8) BU-CHUL SIN

Title: METAL CATHODE AND INDIRECTLY HEATED CATHODE ASSEMBLY HAVING THE SAME

Please find attached hereto an application for patent which includes: Specification and Abstract, Claims, original Declaration And Power of Attorney, Assignment, and a certified copy of the foreign priority document identified below:

Verified Showing of Small Entity Status: **NO**

Drawings: Formal drawings, 3 sheets, Figures 1A through 3B

Claim of priority under 35 U.S.C. §119: **YES**

** The Republic Of Korea Application No. 2001-8753 filed on 21 February 2001.

FEE (see formula below): CHECKS ARE ENCLOSED (#42063 and #42064)

Basic Fee \$370/740 \$740.00

Additional Fees:

Total number of claims in excess of 20: ___ times \$9/18 \$0.00

Number of independent claims in excess of 3: ___ times \$42/84 \$0.00

Multiple Dependent Claims \$140/280 \$0.00

An Assignment is likewise enclosed: Recording Fee \$40 \$40.00

Filing Non-English specification \$0.00

TOTAL FEES FOR THE ABOVE APPLICATION \$780.00

INTELLECTUAL PROPERTY LAW

TELEPHONE (202) 408-9040

FACSIMILE (202) 289-7100

FACSIMILE (202) 628-3835

FACSIMILE (410) 747-0022

E-MAIL: REBUSHNELL@AOL.COM

- U.S. Postal Service
 Via Local Courier
 Via International Courier
 Via Facsimile No. _____
 Via E-Mail Attachment
 Please Acknowledge Receipt

Attorney Docket: P56645

JC975 U.S. Postage Paid
 10/07/77 62
 02/20/02

Assistant Commissioner for Patents
20 February 2002
Page Two

Docket No.: P56645

Inventor: 1) DONG-KYUN SEO 5) SUNG-HWAN MOON
 2) JONG-SEO CHOI 6) YOON-CHANG KIM
 3) KYOUNG-CHEON SON 7) SEUNG-KWON HAN
 4) KYU-NAM JOO 8) BU-CHUL SIN

Title: **METAL CATHODE AND INDIRECTLY HEATED CATHODE ASSEMBLY HAVING THE SAME**

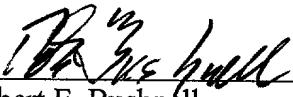
Assistant Commissioner is authorized to charge our Deposit Account No. 02-4943 for any additional charges necessary towards payment of the filing fee for the above-referenced application. Please notify the undersigned attorney of any transaction regarding our Deposit Account.

In view of the above, it is requested that this application be accorded a filing date pursuant to 37 CFR 1.53(b).

Please address all correspondence to:

Robert E. Bushnell
1522 K Street, N.W.
Suite 300
Washington, D.C. 20005

Respectfully submitted,



Robert E. Bushnell
(Registration No. 27,774)
Payor No.: 008-439
Attorney for the Applicant
1522 K Street, N.W.
Suite 300
Washington, D.C. 20005

Telephone: (202) 408-9040
Telefacsimile: (202) 628-0755

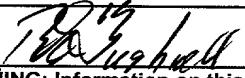
REB/sb

J1132 U.S.
02/20/02

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL

Patent fees are subject to annual revision.

Complete If Known							
Application Number			To be Assigned				
Filing Date			20 February 2002				
First Named Inventor			DONG-KYUN SEO et al.				
Examiner Name			To be Assigned				
Group/Art Unit			To be Assigned				
TOTAL AMOUNT OF PAYMENT		(\$) <u>780.00</u>		Attorney Docket No.			
				P56645			
METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)					
1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:		3. ADDITIONAL FEES					
Deposit Account Number: <u>02-4943</u>		Large Entity Small Entity					
Deposit Account Number: _____		Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
<input type="checkbox"/> Charge Any Additional Fee Required Under 37 C.F.R. §1.16 and 1.17.		105	130	205	65	Surcharge-late filing fee or oath	\$
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		127	50	227	25	Surcharge-late provisional filing fee or cover sheet	\$
<input type="checkbox"/> Non-English specification		139	130	139	130	Non-English specification	\$
<input checked="" type="checkbox"/> Payment Enclosed: (CHECK #42063 & #42064)		147	2,520	147	2,520	For filing a request for reexamination	\$
<input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other		112	920*	112	920*	Requesting publication of SIR prior to Examiner action	\$
<input checked="" type="checkbox"/> Requesting publication of SIR after Examiner action		113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	\$
FEE CALCULATION		115	110	215	55	Extension for reply within first month	\$
1. BASIC FILING FEE		116	400	216	200	Extension for reply within second month	\$
Large Entity Small Entity		117	920	217	460	Extension for reply within third month	\$
Fee Code Fee (\$)		118	1,440	218	720	Extension for reply within fourth month	\$
101 740 201 370 Utility filing fee		128	1,960	228	980	Extension for reply within fifth month	\$
106 330 206 165 Design filing fee		119	320	219	160	Notice of Appeal	\$
107 510 207 255 Plant filing fee		120	320	220	160	Filing a brief in support of an appeal	\$
108 740 208 370 Reissue filing fee		121	280	221	140	Request for oral hearing	\$
114 160 214 80 Provisional filing fee		138	1,510	138	1,510	Petition to institute a public use proceeding	\$
SUBTOTAL (1) (\$) <u>740.00</u>		140	110	240	55	Petition to revive - unavoidable	\$
2. EXTRA CLAIM FEES		141	1,280	241	640	Petition to revive - unintentional	\$
Extra Claims Fee from below Fee Paid		142	1,280	242	640	Utility issue fee (or reissue)	\$
Total claims 19 -20** = x =		143	460	243	230	Design issue fee	\$
Independent Claims 3 - 3** = x =		144	620	244	310	Plant issue fee	\$
Multiple Dependent =		122	130	122	130	Petitions to the Commissioner	\$
Multiple Dependent =		123	50	123	50	Petitions related to provisional applications	\$
** or number previously paid, if greater; For Reissues, see below		126	180	126	180	Submission of Information Disclosure Statement	\$
Large Entity Small Entity		581	40	581	40	Recording each patent assignment per property (Times number of properties)	\$40.00
Fee Code Fee (\$)		146	740	246	370	Filing a submission after final rejection (37 C.F.R. §1.129(a))	\$
103 18 203 9 Claims in excess of 20		149	740	249	370	For each additional invention to be examined (37 C.F.R. §1.129(b))	\$
102 84 202 42 Independent claims in excess of 3		Other Fee (specify) _____					\$
104 280 204 140 Multiple dependent claim, if not paid		Other Fee (specify) _____					\$
109 84 209 42 ** Reissue independent claims over original patent		** Reduced by Basic Filing Fee Paid					
110 18 210 9 ** Reissue claims in excess of 20 and over original patent		SUBTOTAL (3) \$ <u>40.00</u>					
SUBMITTED BY						Complete (if applicable)	
Typed or Printed Name		Robert E. Bushnell, Esq.			Reg. Number	27,774	
Signature			Date	20 February 2002	Deposit Account User ID		

REB/sb

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.